



# BP Oil Spill Response

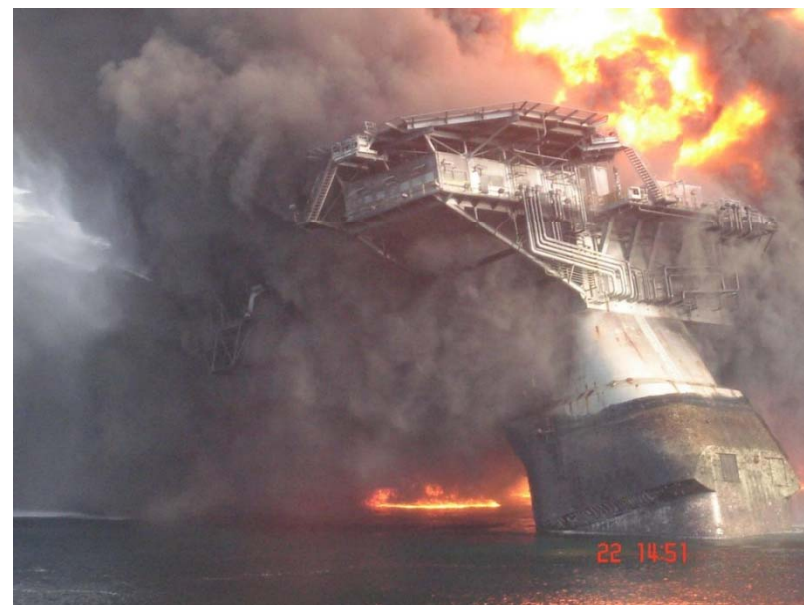
USEPA  
Roles  
and  
Activities





# Situation Overview

- On April 22, Deepwater Horizon rig capsizes and sinks
- Current release estimates range from 20,000 – 40,000 barrels/day (Updated 6/13/2010: Interagency Flow Rate Technical group)
- Top hat containment system capturing an estimated 14,000 barrels/day
- Over 120 miles of shoreline impacted
- Wildlife impacts are growing – 35 National Wildlife Refuges threatened by oil impact





# Spill of National Significance

- On April 29, Secretary Napolitano declares the incident a Spill of National Significance (SONS)
- This designation allows the U.S. Coast Guard (USCG) to leverage the full resources available to the federal government
- Regions 4 and 6 are integrated into Unified Command structure (Robert, Houma, and Mobile)
- Headquarters (HQ) Emergency Operations Center (EOC) and R4 and R6 Regional Emergency Operation Centers (REOCs) are activated. EPA supports USCG National Incident Command (NIC) Interagency Solutions Group (IASG)

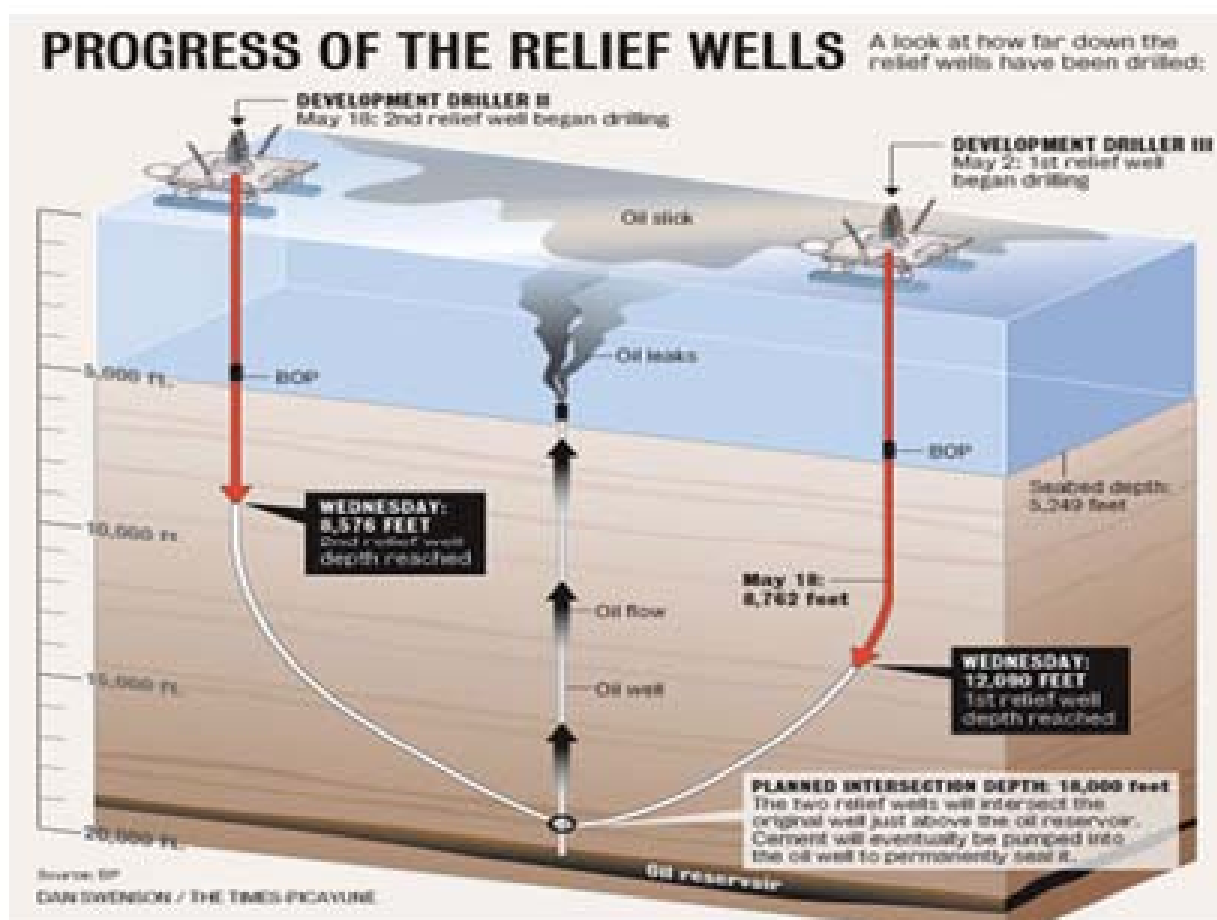




# BP Oil Spill as of June 19



# Relief Wells







# Coordination Efforts



- HQ EOC activated in Washington, DC
- USCG NIC presence in Washington, DC and New Orleans, LA
- EPA supporting USCG IASG in Washington, DC
- Region 6 REOC in Dallas, TX
- Region 4 REOC in Atlanta, GA
- Area Command; Robert, LA
- Incident Commands established in Houma, LA; Mobile, AL; and Miami, FL



# Response to Date

	Totals for 6/26	Cumulative Totals as of 6/26
Responding Personnel	39,299	-
Responding Offshore Vessels	4,953	-
Deployed Containment Boom (million ft.)	-	2.93
Deployed Sorbent Boom (million ft.)	-	4.73
Controlled Burns Conducted	0	275
In-Situ Burned Oil (bbls)	-	237,950
Recovered Oil/Water Mix (bbls)	17,462	652,000
Oil Recovered by the Enterprise (bbls)	14,734	340,868
Oil Collected/Burned by Q4000 (bbls)	8,024	94,976
Applied Surface Dispersant (gal)	23,022	1,026,271
Applied Subsurface Dispersant (gal)	12,535	540,078



# EPA Personnel Resources

- EPA EOC (DC) activated with **48** personnel
- Region 4 has **41** personnel in REOC and field
- Region 6 has **99** personnel in the REOC and field
- Total personnel **188** (108 EPA and 80 contractors) at above locations
- Personnel engaged will grow as shoreline cleanup efforts increase





# Dispersant Application

- Dispersant is being applied to surface and subsurface
- Over 1.14 M gallons applied to date
- USCG and EPA directives have been issued to BP
- EPA and USCG requiring BP to follow an adaptive monitoring plan for subsurface application
- Emphasis on reducing dispersant use by 75% and identifying potential alternatives
- Surface and subsurface application is by USCG Federal on-Scene Coordinator (FOSC) and EPA approval
- Requiring BP to make data public as available



# Sampling Plans

- Air Sampling and Monitoring Plan
- Water and Sediment Sampling Plans
- Waste Management Plans



# Air Monitoring Effort

- Objectives: worker and public health protection, establishing baseline conditions, impact on NAAQS
- Air toxics, criteria pollutants, dispersant constituents, incineration and evaporation by-products, and compounds causing odors
- Specialized assets



# Specialized Monitoring Assets



**TAGA** Trace Atmospheric Gas Analyzer mobile air sampling bus

**ASPECT** Airborne Spectral Environmental Collection Technology aircraft





# Monitoring Devices



- AreaRaes were used for investigating odor complaints and to establish baseline VOC data
- 2 Emergency Response Team's (ERT) TAGA vehicles used to obtain Volatile Organic Carbon (VOC) readings in the parts per billion range
- ASPECT – aerial imagery and monitoring for shoreline and in-situ burns
- Summa canisters were used to obtain air toxic information







# Water Sampling Along the Gulf





# Water Sampling Effort

- Main objectives: establishing pre-spill impact sediment and water quality conditions and monitoring through impact and recovery
- Using existing sample locations from EPA's National Coastal Assessment and identified targeted locations
- Special assets, coordinating with USCG and National Oceanic and Atmospheric Administration (NOAA) on deep water vessel sampling efforts and with U.S. Geological Survey (USGS) and NOAA on dispersant analyses, including aquatic toxicity



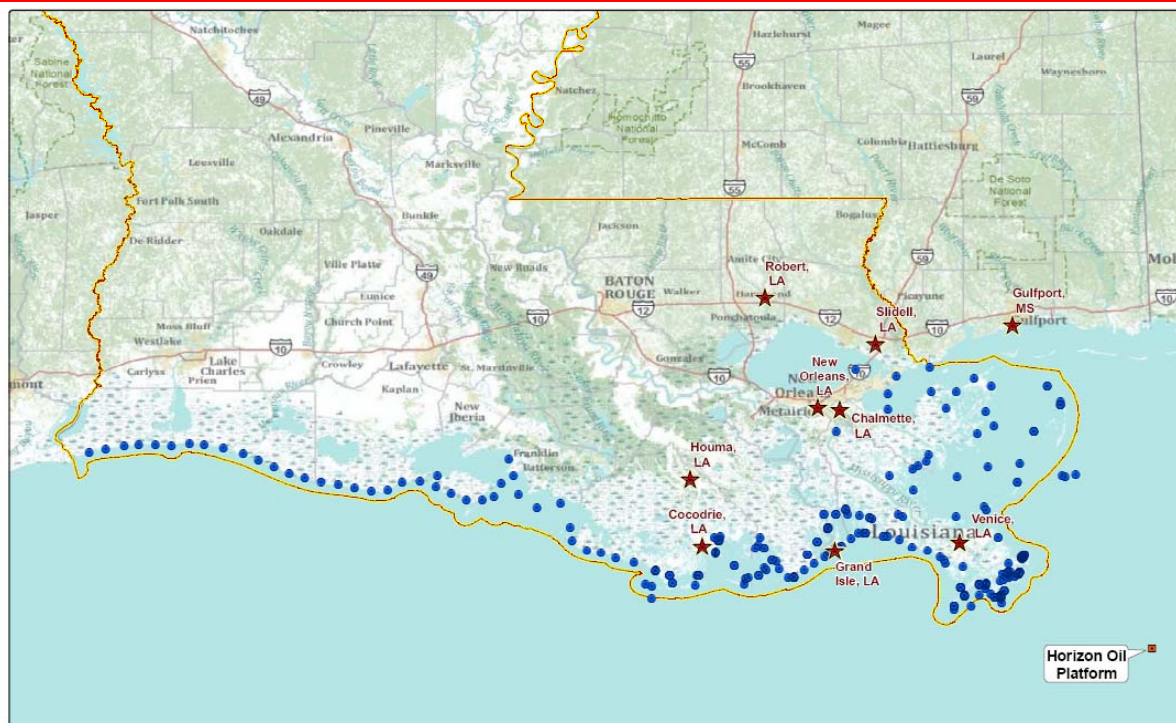
# Water and Sediment Analysis

- Water sampling shoreline and expanding into near-shore includes baseline and ongoing surface and sediment sampling for oil-associated contaminants and parameters related to dispersants and aquatic toxicity
  - Semi-volatile (SVOC)
  - Metals
  - Total organic carbon (TOC)
  - Total petroleum hydrocarbons (TPH)
  - Oil & Grease
  - Dispersant constituents
  - Toxicity testing





# Water Quality Sampling Locations



## Legend

- ★ EPA Asset Location
- Surface Water Location

Background Map Service Sources:  
ESRI, NOAA, NGA, and other suppliers



US EPA REGION 6  
START-3  
(For Official Use Only)

EPA Surface Water Sample Locations  
Deepwater Horizon Incident

Date Created:  
6/13/2010

UIC:  
R520

SCALE:  
As Shown



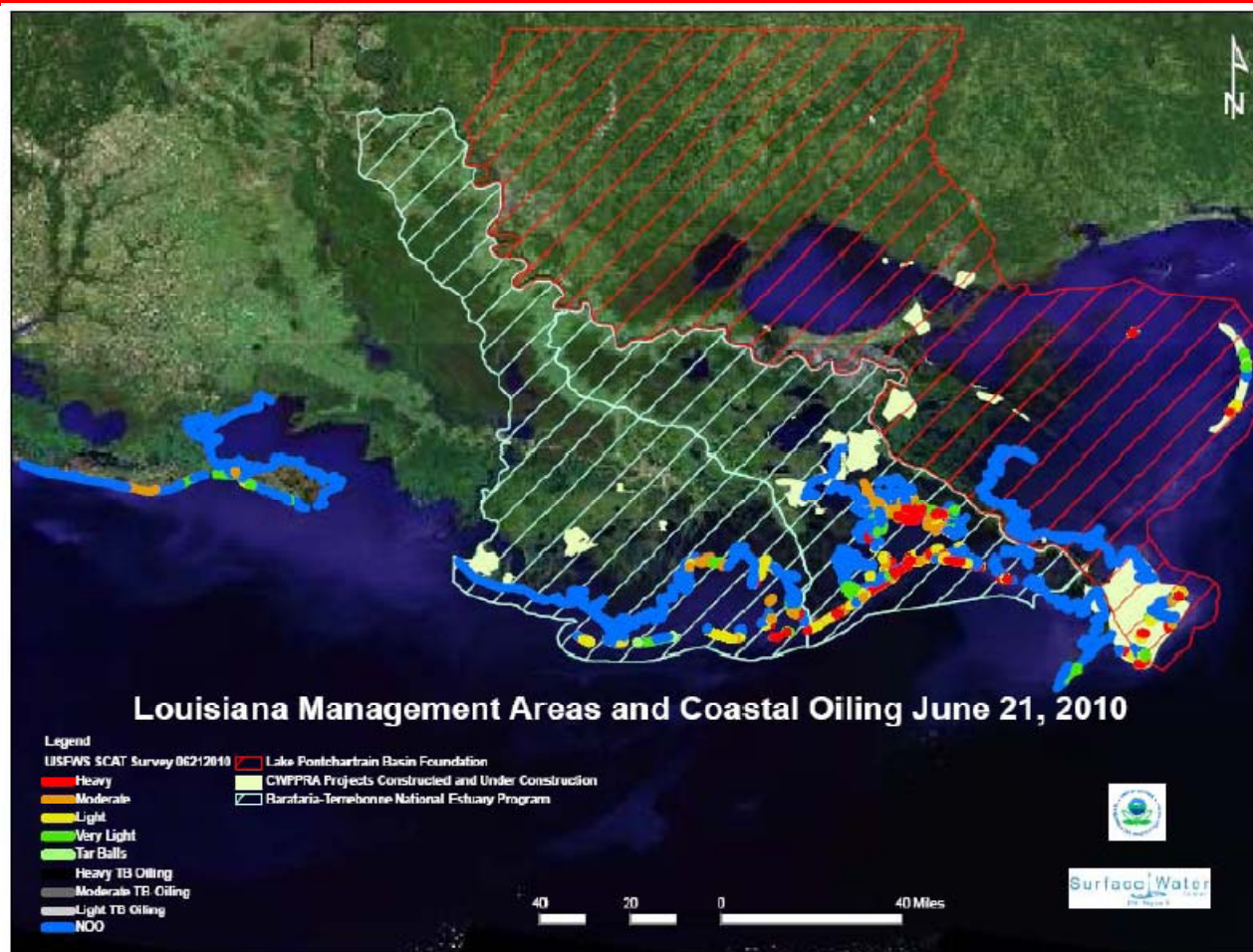


# Waste Management Plan & Shoreline Cleanup

- EPA review of BP's waste management plan with coastal states including uniform waste tracking and transparency
- Identified BP's debris staging and collected socio-economic data for environmental justice (EJ) analysis
- Assessed compliance status of selected waste management sites (e.g., landfills)
- Shoreline cleanup oversight and Shoreline Cleanup Assessment Team (SCAT) requests in Region 4



# Coastal Oiling along Louisiana Coast





# Technology Solutions

- EPA website soliciting solutions
  - Over 1800 suggestions received and reviewed
  - Well-head suggestions provided to BP
- Participating in Interagency Alternative Technologies Assessment Program
- Hosted Alternative Coastal Protection and Cleanup Technology Forum in New Orleans on June 5th



# Research and Development

- EPA Office of Research and Development (ORD) \$2M appropriation request for dispersant research
- Grants to universities with oil spill, dispersant use and ecological risk expertise
- Focus on dispersant toxicity, application, surface washing and bio-remediation agents and other mitigation measures



# More Information

- Official Overall Response Website:
  - [www.deepwaterhorizonresponse.com](http://www.deepwaterhorizonresponse.com)
  - Data from unified command, transcripts of Briefings and various contact information for questions, claims and volunteering opportunities
- EPA – BP Spill Page: [www.epa.gov/BPSpill](http://www.epa.gov/BPSpill)
  - Sampling data for all air, water and sediment samples taken as well as monitoring results from ASPECT and sites in Region 6 and Region 4